

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs.

1775000.00

Name of Work: Detailed Estimate for the Work of Providing Fixing new Motor pump, PVC Cable, new Pannel Board, MS Box, and other nessarry accessory to Existing Borewell at Hegadenagara Surrounding areas in Ward No. 06, Byatarayanapura Sub Division.

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 15.000 HP 25 stage (P.NO-XXXXII, I.NO-33, PWD SR 16-17) For Additional Motor 12.5 HP 25 Stage	No							
2	12.5HP 25 Stage (P.NO-XXXX, I.NO-24, PWD SR 16-17)		2				2	60400.00	120800.00
3	15 HP 30 Stage (P.NO-XXXXI, I.NO-33, PWD SR 16-17)		2				2	70600.00	141200.00
4	Providing, laying & jointing GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings)b 50mm dia GI pipe (SR 13-14 PWD, P.No.XVII Sl.no. 509)	Rmtr							
			1	1500.00			1500.00	340.26	510390.00
	Basic Rate	321.00							
	6% area weightage	19.26							
	Total	340.26							
5	Providing & fixing heavy duty collar (P.NO-III, I.NO-86, PRED 12-13 SR)		1	250.00			250.00	159.00	39750.00
	Basic Rate	150.00							
	6% area weightage	9.00							
	Total	159.00							
6	Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS: 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volts 4 sqmm of 56 strands 0.3mm dia (P.NO-535, I.NO-30 (c), BWSSB	Mtr							
			1	1300.00			1300.00	188.70	245310.00

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	Supplying and delivery at site brand new star Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. 12.5HP to 15 HP Star Delta Starter SERDED Rate	No.							
			8				8.00	11000.00	88000.00
8	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete P.No. 49, I. No. 6.40.2 KPWD Electrical SR 2014-15	Sq.Cm							
			8	1100.00	20.00		176000.00	0.33	58080.00
9	Supplying and delivery of brand new best make Gate Valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark . 50mm Gate Valve for distributor pipeline. 50mm dia (PWD SR 16-17, P.NO.XXIV, SI.no, 659)	No's							
			5	3.00			15.00	1150.00	17250.00
10	Providing and fixing of 50mm GI bend to motor (PWD SR 16-17, P.NO.XXXVIII GI FITTINGS TABLE)	No's							
			5	3.00			15.00	232.14	3482.00
	Basic Rate	219							
	6% area weightage	13.14							
	Total	232.14							
11	Providing and fixing of 50mm GI Nipple to motor (PWD SR 2016-17, P.NO.XXXVIII GI FITTINGS TABLE)	No's							
			5	3.00			15.00	110.56	1658.00
	Basic Rate	104.3							
	6% area weightage	6.26							
	Total	110.56							
12	Providing and fixing of 50mm GI union to the motor (PWD SR 2016-17, P.NO.XXXVIII GI FITTINGS TABLE)	No's							
			5	3.00			15.00	237.12	3557.00
	Basic Rate	223.7							
	6% area weightage	13.42							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	237.12							
13	Labour Charges for end connection (MR)	No's	5				5.00	400.00	2000.00
14	Supplying and fixing miniature circuit breakers/isolators in existing MCB distribution boards using necessary fixing materials and wiring complete as required, 40 to 63 Amps DP (P.NO - 526, I.NO - 13D (a), BWSSB SR 13-14)	No's	10	1.00			10.00	906.40	9064.00
	Basic Rate	880							
	3% area weightage	26.40							
	Total	906.40							
15	Supplying and fixing Class-A GI Pipe on pole/wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (P.NO - 555, I.NO - 15 (b), BWSSB SR 13-14)	Mtr	1	20.00			20.00	294.58	5892.00
	Basic Rate	286							
	3% area weightage	8.58							
	Total	294.58							
16	Supplying shunt capacitor's conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of roating machinery capacitor in KVAR rating No's. (MR)	No's	10				10.00	1350.00	13500.00
17	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... P No. 32/I No 3b KPWD Electrical SR 2010-11	No.	12	3.00			36.00		
	63 Amps						36.00	150.00	5400.00
18	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.3, PWD SR	Cum	1	780.00	0.45	0.75	263.25		
							263.25	223.66	58878.00
	Basic Rate	189							
	6% area weightage	11.34							
	Total	200.34							
19	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 94, I.NO - 13.73.2, PWD SR	Mtr	1	780.00			780.00		
	63MM								

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							780.00	368.88	287726.00
	Basic Rate	348.00							
	6% area weightage	20.88							
	Total	368.88							
20	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 16-17)	Cum							
			1	780.00	0.45	0.75	263.25		
							263.25	59.36	15627.00
	Basic Rate	56.00							
	6% area weightage	3.36							
	Total	59.36							
							Grand Total		1627564.00
21	For 8% KRIDL Charges								130205.00
22	For 1% Third Party Inspection Charges								16276.00
23	Miscellaneous Charges	L/S							955
								Total	1775000.00

Rupees Seventeen Lakh(s) Seventy Five Thousand Only

CERTIFICATE :

- 1 The work spot has been inspected and the work is found necessary.
- 2 This estimate is prepared as per PWD S.R.2016-17 of Rural Engineering Department
- 4 The provisions were made in this estimate are necessary and adequate.
- 5 This works come under B.B.M.P. limits.

Assistant Engineer

Executive Engineer
Byatarayanapura Division
Bangalore - 92

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike

Administrative Approval

Accorded For 17.75 lakh Rs.
Head of A/C P 3111
CER NO : 218 Dt. 06.03.17

TA

CE (YNK)

TECHNICAL SANCTION	
Accorded For Rs. <u>Seventeen lakhs Seventy five thousand only</u>	
Head of A/C <u>171</u>	
Div. Ref. No. <u>10/03/17</u>	Date <u>10/03/17</u>
<u>AE</u>	<u>EE(BTP)/10/03</u>